#### MEMORANDUM

TO: Kentucky Certified Microbiology Laboratories

FROM: Tiffany Nolan

**Microbiology Certification Officer** 

**Kentucky Laboratory Certification Program** 

RE: PRE-AUDIT QUESTIONNAIRE

The Pre-Audit Questionnaire must be completed and returned 10-14 days prior to your laboratory's scheduled on-site audit, unless a date is specified. Please send the hard copy or electronic copy of each document to the following:

Tiffany Nolan / Laboratory Certification Section 200 Fair Oaks Lane, 4<sup>th</sup> Floor Frankfort, KY 40601

Tiffany.Nolan@ky.gov

The Pre-Audit Questionnaire includes (Micro PAQ Rev 2014):

- 1. General Laboratory Information
- 2. Laboratory Sample Load
- 3. Methods Performed
- 4. Sample Audit Forms
- 5. Checklist for QC Items submitted to Auditor

Please fill out the Pre-Audit Questionnaire (Micro PAQ Rev 2014). In regard to the <u>sample audit</u>, two samples must be audited per method certified. A Total Coliform or *E. coli* positive sample must be included as one or both of the samples, providing a TC+ or EC+ routine compliance sample (or special) was detected since the last on-site audit.

Please include supporting documents for each of the samples audited. Also, include copies of Supply Log, QC Log, PT Studies, Trace Metals & BST Test, Thermometer Calibration, and any other certificates received during the past 12 months.

A copy of any significant changes in your SOPs/QA Manual must be sent to my attention 10-14 days prior to your scheduled audit. In addition, include a copy of your laboratory supply receipt log along with documentation of the supplies that were received by the laboratory.

Thank you for your cooperation during the audit process.



**REV: 11.18.2014** 

# COMMONWEALTH OF KENTUCKY DIVISION OF WATER MICROBIOLOGY LABORATORY CERTIFICATION

**General Laboratory Information** 

		General Lab	orato	гу ипогша	เนอก	
Laboratory					Lab Number	
Street						
Address						
City		State			Zip Code	
Phone				Fax		
Number				Number		
Email						
Date						
Person/s to contact if questions occur:						
<u>Name</u>		Phone Number	<u>r</u>		For Section	
1.					Microbiology	

Name	Phone Number	For Section
1.		Microbiology
2.		QA/Data Reporting

PT Study Provider		Study:	#	Date	
				Performed	
Trace Metals				Date	
Provider				Performed	
Bacteriological				Date	
<b>Suitability Provider</b>				Performed	
<b>Inhibitory Residue</b>				Date	
Test				Performed	
Name of Detergent:					
<b>Total Coliform</b>	HI	PC		LT2 Method	
Method	Mo	ethod			

## **General Laboratory Information**

Laboratory	Lab Number	Date	

#### Personnel

Position	Name	Time-in Present Position	Academic Background	Prior Experience	Training Folder on File	CEU's
<b>Laboratory Director</b>			Degree: Institution:	Title: Company:		
			Microbiology Course:	Years:		
Supervisor/Manager			Degree: Institution:	Title: Company:		
			Microbiology Course:	Years:		
Microbiologist			Degree: Institution:	Title: Company:		
			Microbiology Course	Years:		
Technician/Analyst			Degree: Institution:	Title: Company:		
			Microbiology Course	Years:		
Consultant						

	Name of Analyst	PT Sample	<u>Blind</u>	Split Sample
1.				
2.				
3.				
4.				
5.				

## **Laboratory Sample Load**

Laboratory	Lab Nur	nber	Date	
Sample ty	pe analyzed	Number a	nalyzed/year*	
Drinking w	ater (Public)			
Drinking wa	ater (private)			
Wast	ewater			
Surfac	ce (raw)			
Ot	her			
Total samples	Dates			
analyzed				
Comments:				

<sup>\*</sup>Number of samples analyzed since last audit.

#### **Methods Performed**

Laboratory	Lab Number	Date	
Labulatul	Laviumbei	Date	

#### **USEPA APPROVED MICROBIOLOGICAL METHODS**

#### A. DRINKING WATER

5.0	Analytic	cal Methodo	logy (Please check metho	ods for which certification is requested	)
	5.4	Membrai	ne Filter (MF) (SM9222B	3)	
		5.4.2.1.1	mEndo		
		5.4.2.1.2	mColiBlue24		
		5.4.2.1.3	MI Medium		
		5.42.1.4	Chromocult		
		5.4.2.1.5	Coliscan		
	5.3	Enzyme (	Chromogenic/Fluorogen (SM 9223B)	ic) Substrate Tests	
		5.3.2.1	Colilert 1. P/A 2. MPN		
			Colilert-18 1. P/A 2. MPN		
		5.3.2.2	Colisure 1. P/A 2. MPN		
		5.3.2.4	Readycult Coliforms 100		
		Escherch	<u>ia coli</u>		
		5.3.3	EC/MUG (SM 9221F)		
		5.4.3	NA/MUG (SM 9222G)		
		Heterotro	ophic Plate Count		
		5.5.1	Pour Plate (SM9215B)		
		5.5.10	SimPlate (40 CFR 141.	74(a)(1))	
В.	LT2-ESW	TR (40 C	FR PART 141.74, T	ABLE IV, J-1)	
		5.3.2.1	Colilert MPN		
			Colilert-18 MPN		
		5.4.2.1.3	MI Agar		
		5.4.2.1.2	mColiBlue 24 Agar		
		5.4.3.1	mFC/NA-MUG		

C.	AMBIENT WATER	R (40 CFR 136.3, TABLE I.H, pg. 33)	
	5.3.2.1	Colilert MPN	
		Colilert-18 MPN	
	5.4.2.1.3	MI Agar	
	5.4.2.1.1	mEndo/NA-MUG	
	5.4.2.1.2	mColiBlue 24	
D.	GROUND WATER and 40 CFR 141.210	(40 CFR 141.402(c) , Table IV.1, 5)	
	5.3.2.1	Colilert 1. P/A 2. MPN Colilert-18 1. P/A	
		2. MPN	
	5.3.3.2	Colisure	
	5.4.2.1.3	MI Agar	
	5.4.2.1.2	mColiBlue 24	

#### **Pre-Visit Information**

#### I. General Laboratory Equipment

Item	# of Units	Make, Model, Serial # & Date Placed in Service	Age	Condition/Performance
Autoclave				
Autoclave Maximum Registering Thermometer				
Waterbath Incubator 44.5 ± 0.2°C				
44.5 ± 0.2°C Thermometer				
Water-Jacketed Incubator 35 ± 0.5°C				
35 ± 0.5°C Thermometers				
Тор				
Middle				
Bottom				
Balance, Pan				
Balance, Analytical				
Conductivity Meter				
Microscope, Compound				
Microscope, Stereo				
Spectrophotometer/Colorimeter				
Hot Plate				
Hot Plate, Stirrer				
Hot Air Sterilizing Oven				
Biological Safety Cabinet				
Glassware Washer				
Automatic Pipette/Micropipette				
Refrigerator 1-5°C				
1 – 5°C Thermometer				
Colony Counter				
pH Meter				
Membrane Filtration Manifold				
Shortwave UV Lamp/Box (254nm)				
Shortwave UV Meter				
Longwave UV Lamp (6 watt, 365nm)				
Longwave UV Meter				
Colilert Sealer				
Reference Thermometer				
Provider & Date Last Certified				
Reference Weights (ASTM 1, 2, 3)				
Provider & Date Last Certified				
Other:				

#### **Pre-Visit Information**

## II. Laboratory Services and Space

ITEM	*	SATISFACTORY YES NO	COMMENTS (Where Applicable cite system,  Problems experienced)	
Distilled Water			Still Manf.	Age
<b>Deionized Water</b>			System Manf.	Age
Reverse Osmosis			System Manf.	.Age
Vacuum				
Lighting				
Air Conditioning				
Biohazard Hood (Laminar Flow)			System Manf.	Age
Hood (Other)				
Glass-Washing Area				
Office Space (Cite sq.ft./person)				
Laboratory Space (Cite sq.ft./person)				
In-Laboratory Storage/Supplies (Shelves, cabinets)				
Bench Space (Cite linear ft./person				
Storage Space (Cite Total sq.ft.)				
Other				

<sup>\*</sup>Available

#### **Pre-Visit Information**

#### **VENDORS OF SUPPLIES/SERVICE CONTRACTS**

	<b>SUPPLIES</b>	VENDOR/ADDRESS	CONTACT PERSON	<u>TEL.#</u>
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				

<b>SERVICE</b>	VENDOR/ADDRESS	<b>CONTACT PERSON</b>	<u>TEL.#</u>
BALANCE			
AUTOCLAVE			
REFERENCE			
WEIGHTS			
DEFEDENCE			
REFERENCE			
THERMOMETER			
pH METER			
CONDUCTIVITY			
METER			
INCUBATOR			

#### SAMPLE #1 SAMPLE AUDIT

Laboratory	Lab Number	
Date	Analyst	

Note: Two samples from your routine distribution log that have been processed since your last audit will be reviewed. The Microbiology Auditor will audit the sample log (COC) and bacteriological report form, copy of QC log for pH, conductivity, balance, autoclave, and media, incubator, bottles (trays), supply receipt log, etc. for the sample.

SAMPLE AUDITED	SAMPLE DATA	SAMPLE / QC RESULTS
CHAIN OF CUSTODY		
Date & Time Collected		
Date & Time Received-lab		Storage:
Date & Time Processed		
Date & Time Read		
Sample Log #		
Analyst Performing Analysis		
Sample Method	KY Code:	
Sample Results		
Total Coliform Result		
<i>E. coli</i> Result		
Analyst/Date/Time Read		
<b>BARF Form/Electronic Submittal</b>		
<b>Total Coliform Report Form</b>		
<b>Action Response to Positive Sample</b>		
Persons Notified		
Analyst Reporting Positive		
Coliform Media		
Lot/Batch #	18: 24:	
Date Received/Prepared		рН
Expiration Date		
Date +/- Controls Performed on Lot	Date/Time Incubated:	Date/Time Read:
Analyst Performing Control Check		
Sterile Water Lot/Batch #		Vendor:
Date Received/Autoclaved		
Sterility Check	Date/Time Incubated:	Date/Time Read:
TSB ds Lot/Batch #		
Date Received/Autoclaved for		
TSB ds		
Sterility Check for TSB ds	Date/Time Incubated:	Date/Time Read:
pH Check of TSB ds		pH:
Buffer Rinse Water (MF method) Lot/Batch #		Vendor:
Date Received/Autoclaved		

SAMPLE AUDITED	SAMPLE #1	SAMPLE / QC RESULTS
Buffer Rinse Water (continued)		
Expiration Date		
Sterility Check of BRW	Date/Time Incubated:	Date/Time Read:
pH Check of BRW		pH:
TSB ds used to QC BRW		Vendor:
Lot/Batch #		
Date Received/Autoclaved TSB		
ds		
Sterility Check of TSB ds	Date/Time Incubated:	Date/Time Read:
pH Check of TSB ds		pH:
Membrane Filter		
Lot#		
Date Received		
Expiration Date		
Sterility Check	Date/Time Incubated:	Date/Time Read:
+/- Control Results		
TSB ss Lot/Batch #		Vendor:
Date TSB Autoclaved/Received		
Sterility Check of TSB ss	Date/Time Incubated:	Date/Time Read:
pH Check of TSB		pH:
Colilert MPN Tray Lot#		
Date Received		
Expiration Date		
Sterility Check	Date/Time Incubated:	Date/Time Read:
TSB ss Lot/Batch #		Vendor:
Date TSB Autoclaved/Received		
Sterility Check of TSB ss	Date/Time Incubated:	Date/Time Read:
pH Check of TSB		pH:
Tray Sealer	Serial #	,
Date of Dye Check		Result:
Lot # of Trays		
Sample Bottle	Lot#	Vendor:
Date Received/Autoclaved		
Expiration Date		
Sterility Check	Date/Time Incubated:	Date/Time Read:
TSB ss Lot/Batch #		Vendor:
Date TSB Autoclaved/Received		
Sterility Check of TSB ss	Date/Time Incubated:	Date/Time Read:
pH Check of TSB		pH:

SAMPLE AUDITED	SAMPLE DATA	SAMPLE / QC RESULTS
Chain of Custody for Repeat		
Samples Samples		
Date/ Time Collected		
Date/Time Received		Storage:
Date/Time Processed		
Date/Time Read		
<b>Results of Repeat Samples</b>		
Total Coliform Result		
<i>E. coli</i> Result		
Analyst/Date/Time Read		
<b>BARF Form/Electronic Submittal</b>		
<b>Total Coliform Report Form</b>		
<b>Action Response to Repeat</b>		
<b>Samples</b>		
Persons Notified		
Analyst Reporting Result	_	

<b>Quality Control Organisms</b>	ATCC#	Genus/species	Lot #
E. coli			
Total coliform			
Non-coliform			
Vendor			
Kovacs Reagent/Lot #			

EQUIPMENT QC	SAMPLE DA		SAMPLE QO	C/RESULTS
for Sample Audited			`	
pH Meter				
Lot #/Result of Reading for 4.0				
Lot #/Result of Reading for 7.0				
Lot #/Result of Reading 10.0				
% Slope				
Analyst/Date QC Performed				
Conductivity Meter				
Conductivity Standard	Vendor:		Concentration:	
,	Lot #			
Result of Standard Reading				
Analyst/Date QC Performed				
Autoclave				
Quarter Time Check Result	15min:		45min:	
MRT	Date:		Temperature:	
Bioindicator	Lot #		Results:	
Bioindicator Incubator Temperature	Day 1:		Day 2:	
Balance	-		-	
Monthly Calibration Date/Analyst:				
Reference Weight Certification Date:			Serial #	
Lab Pure Water				
Monthly HPC	Date/Time Read:		Result:	
Lot/Batch of HPC Medium				
Received/Autoclaved Date for HPC				
Sterility Check of HPC	Date/Time Incubate	d:	Date/Time Read:	
pH Check of HPC			рН	
Chlorine Reading	Date:		Result:	Analyst:
	Standard:	ppm	Lot:	
Conductivity Reading	Date:		Result:	Analyst:
	Standard:		Lot:	
Incubator (35°C)				
Temperature Readings	Date/Time1:		Temp:	Analyst:
	Time2:		Temp:	Analyst:
Incubator (44.5°C)	Date/Time:		Temp:	
Refrigerator (1-5°C)	Date/Time:		Temp:	
Longwave UV Lamp	Initial Reading:	μw/cm <sup>2</sup>	Date:	Analyst:
	QC Reading:	μw/cm²	Date:	Analyst:
UV meter	Model:		Date Certified:	
Monthly QC of Method	Date:		Analyst:	

#### SAMPLE #2 SAMPLE AUDIT

Laboratory	Lab Number	
Date	Analyst	

Note: Two samples from your routine distribution log that have been processed since your last audit will be reviewed. The Microbiology Auditor will audit the sample log (COC) and bacteriological report form, copy of QC log for pH, conductivity, balance, autoclave, and media, incubator, bottles (trays), supply receipt log, etc. for the sample.

SAMPLE AUDITED	SAMPLE DATA	SAMPLE / QC RESULTS
CHAIN OF CUSTODY		
Date & Time Collected		
Date & Time Received-lab		Storage:
Date & Time Processed		3
Date & Time Read		
Sample Log #		
Analyst Performing Analysis		
Sample Method	KY Code:	
Sample Results		
Total Coliform Result		
<i>E. coli</i> Result		
Analyst/Date/Time Read		
BARF Form/Electronic Submittal		
Total Coliform Report Form		
<b>Action Response to Positive Sample</b>		
Persons Notified		
Analyst Reporting Positive		
Coliform Media		
Lot/Batch #	18: 24:	
Date Received/Prepared		рН
Expiration Date		
Date +/- Controls Performed on Lot	Date/Time Incubated:	Date/Time Read:
Analyst Performing Control Check		
Sterile Water  Lot/Batch #		Vendor:
Date Received/Autoclaved		
Sterility Check	Date/Time Incubated:	Date/Time Read:
TSB ds Lot/Batch #		
Date Received/Autoclaved for		
TSB ds		
Sterility Check for TSB ds	Date/Time Incubated:	Date/Time Read:
pH Check of TSB ds		pH:
Buffer Rinse Water (MF method)		Vendor:
Lot/Batch #		
Date Received/Autoclaved		

SAMPLE AUDITED	SAMPLE DATA	SAMPLE / QC RESULTS
Buffer Rinse Water (continued)		
Expiration Date		
Sterility Check of BRW	Date/Time Incubated:	Date/Time Read:
pH Check of BRW		pH:
TSB ds used to QC BRW		Vendor:
Lot/Batch #		
Date Received/Autoclaved TSB ds		
Sterility Check of TSB ds	Date/Time Incubated:	Date/Time Read:
pH Check of TSB ds		pH:
Membrane Filter		
Lot#		
Date Received		
Expiration Date		
Sterility Check	Date/Time Incubated:	Date/Time Read:
+/- Control Results		
TSB ss Lot/Batch #		Vendor:
Date TSB Autoclaved/Received		
Sterility Check of TSB ss	Date/Time Incubated:	Date/Time Read:
pH Check of TSB		pH:
Colilert MPN Tray Lot#		
Date Received		
Expiration Date		
Sterility Check	Date/Time Incubated:	Date/Time Read:
TSB ss Lot/Batch #		Vendor:
Date TSB Autoclaved/Received		
Sterility Check of TSB ss	Date/Time Incubated:	Date/Time Read:
pH Check of TSB		pH:
Tray Sealer	Serial #	
Date of Dye Check		Result:
Lot # of Trays		
Sample Bottle	Lot#	Vendor:
Date Received/Autoclaved		
Expiration Date		
Sterility Check	Date/Time Incubated:	Date/Time Read:
TSB ss Lot/Batch #		Vendor:
Date TSB Autoclaved/Received		
Sterility Check of TSB ss	Date/Time Incubated:	Date/Time Read:
pH Check of TSB		pH:

SAMPLE AUDITED	SAMPLE DATA	SAMPLE / QC RESULTS
Chain of Custody for Repeat		
Samples		
Date/ Time Collected		
Date/Time Received		Storage:
Date/Time Processed		
Date/Time Read		
<b>Results of Repeat Samples</b>		
Total Coliform Result		
<i>E. coli</i> Result		
Analyst/Date/Time Read		
<b>BARF Form/Electronic Submittal</b>		
<b>Total Coliform Report Form</b>		
Action Response to Repeat		
<b>Samples</b>		
Persons Notified		
Analyst Reporting Result		

<b>Quality Control Organisms</b>	ATCC#	Genus/species	Lot #
E. coli			
Total coliform			
Non-coliform			
Vendor			
Kovacs Reagent/Lot #			

EQUIPMENT QC	SAMPLE DA		SAMPLE QO	C/RESULTS
for Sample Audited			`	•
pH Meter				
Lot #/Result of Reading for 4.0				
Lot #/Result of Reading for 7.0				
Lot #/Result of Reading 10.0				
% Slope				
Analyst/Date QC Performed				
Conductivity Meter				
Conductivity Standard	Vendor:		Concentration:	
	Lot #			
Result of Standard Reading				
Analyst/Date QC Performed				
Autoclave				
Quarter Time Check Result	15min:		45min:	
MRT	Date:		Temperature:	
Bioindicator	Lot #		Results:	
Bioindicator Incubator Temperature	Day 1:		Day 2:	
Balance				
Monthly Calibration Date/Analyst:				
Reference Weight Certification Date:			Serial #	
Lab Pure Water				
Monthly HPC	Date/Time Read:		Result:	
Lot/Batch of HPC Medium				
Received/Autoclaved Date for HPC				
Sterility Check of HPC	Date/Time Incubate	ed:	Date/Time Read:	
pH Check of HPC			рН	
Chlorine Reading	Date:		Result:	Analyst:
	Standard:	ppm	Lot:	
Conductivity Reading	Date:		Result:	Analyst:
	Standard:		Lot:	
Incubator (35°C)				
Temperature Readings	Date/Time1:		Temp:	Analyst:
	Time2:		Temp:	Analyst:
Incubator (44.5°C)	Date/Time:		Temp:	
Refrigerator (1-5°C)	Date/Time:	2	Temp:	
Longwave UV Lamp	Initial Reading:	μw/cm <sup>2</sup>	Date:	Analyst:
	QC Reading:	μw/cm²	Date:	Analyst:
UV meter	Model:		Date Certified:	
Monthly QC of Method	Date:		Analyst:	

#### PRE-AUDIT QC CHECKLIST FOR NEW LABS

Laboratory	Lab Number	
Lab Supervisor	Analyst	

Please submit a photocopy of LAST TWO PAGES OF EACH QC LOG to the Microbiology Auditor prior to the on-site audit (ONLY for NEW labs or labs applying for RECERTIFICATION, i.e., those laboratories that have been downgraded to "Provisionally Certified", "Not Certified" or "Inactive" Status): Please place an X beside each item submitted.

 Conductivity Meter
 pH Meter
 Balance
 Waterbath (44.5°±0.2C)
 Balance Waterbath (44.5°±0.2C) Incubator (35°C) Incubator (Bioindicator 55-60°C) Refrigerator/Coldroom(1-5°C)
 Incubator (Bioindicator 55-60°C)
Refrigerator/Coldroom(1-5°C)
Autoclave
 a. Quarterly Time Check
b. Monthly Bioindicator
c. Sterilization log
Quarterly Check of 6 Watt Lamp
 Quarterly Check of Germicidal UV Lamp
 Monthly QC of Reagent Grade Water
 a. HPC (<500 CFU/mL)/QC of HPC Media
b. Conductivity
c. Total Cl Residual
 Sterility Check of Buffered Rinse Water/QC of DS TSB/AUTOCLAVE RECORD
Sterility Check of Sterile Water (Enzyme Substrate)/QC of DS TSB/AUTOCLAVE RECORD
 Sterility Check for Membrane Filters/QC OF SS TSB
 Sample Bottles
a. Volume Check (100 mL)
b. Sterility Check /QC of SS TSB
c. Fluorescent Check
 Quanti Trays
a. Sterility Check/QC of SS TSB
b. Fluorescent Check
 Volume Check of MF Funnels
 Commercial/Lab Prepared Media/AUTOCLAVE RECORD
a. Sterility Check
b. pH Check
c. QC w/Control organisms
 Monthly QC of Method
 pH Check of Glassware/Plastic ware
Monthly Transfer of Stock Cultures

beside	beside the items submitted to the auditor.			
	Commercially Prepared Media (enzyme substrate, m-Endo, Coliscan, LTB, Simplate, etc) Dehydrated Media Biochemical ID Systems/Supplies (i.e., Enterotube, API, etc.) Kovacs Reagent Bioindicator Conductivity Standard pH Buffers Commercial Stock Cultures Sample Bottles Pipets pH/Conductivity Probes Petri Plates for MF/HPC Methods Thermometers Other			
	Send copy of lab receipt log enumerating supplies received since the last audit.  Invoices/packing slips may be included with Pre-Audit packet or presented to Microbiology Auditor during the on-site audit.  copies of new certificates/QC forms since the last audit must be sent to the microbiology auditor to the on-site audit. Please place an X beside each item submitted to the auditor.			
	Reference Weights Reference Thermometer Incubator Thermometer Refrigerator Thermometer MRT (maximum registering temperature) Thermometer 44.5° Waterbath Thermometer Annual Calibration of Thermometer Annual Calibration of Balance Annual Check of Autoclave MF membrane (Certificate of Analysis) Trace Metals for RGW Bactericidal Suitability (if applicable)			
	Inhibitory Residue Test PT Results for Method(s) Certified Signature Page for Analysts LT2ESWTR E.coli Enumeration Method Approved by KY/USEPA			

Please submit the laboratory supplies receipt  $\log$  and invoices or packing slips to the microbiology auditor to document lab receipt of the following supplies where appropriate: Please place an X

# QUALITY CONTROL PARAMETERS PERFORMED

WHAT	HOW OFTEN	
Lab Pure Water (Chlorine, Conductivity, pH, HPC)	Monthly	
Lab Pure Water (Metals: Cd, Cr, Cu, Ni, Pb, Zn)	Annually	
Bactericidal Suitability (not required for Type 1 or Type 2 Reagent Grade Water)	Annually	
Conductivity Meter Check	Monthly using a low-level conductivity standard	
Balance Check (ASTM Type 1,2 & 3 weights)	Monthly	
pH Meter Calibration	Each Use	
pH Linearity (Slope 95-105%)	Monthly	
UV Lamp (shortwave 254nm)	Quarterly	
UV Lamp (longwave 365-366nm)	Quarterly or Monthly	
Autoclave (maximum registering thermometer)	Each Use	
Autoclave Timer (15 min time check)	Quarterly	
Autoclave Ampule/Bioindicator	Monthly	
Incubator Temperature	Twice Daily	
Refrigerator Temperature	At least once/day	
Positive & Negative Media Controls	Each lot/batch of media	
Colilert MPN Trays/Bottles	Each lot/batch	
Sample Bottle Sterility & Fluorescence (Colilert)	Each lot/batch	
Colilert Sealer (for leaks using dye)	Monthly	
Equipment Inspection	Annually	
Balance Service	Annually	
Reference Weights	5 years	
Non-Reference Weights	6 months	
Reference NIST Thermometer	5 years	
Glass Non-Reference Thermometers	Annually	
PT Samples	Annually	
Review QA Plan and SOP's	Annually	

# STORAGE OF MATERIALS\*

WHAT	WHERE	HOW LONG
BHI or TSB (prepared)	Refrigerator	3 months
Colisure	Refrigerator	Manufacturer's Date
Colilert/Readycult	Room Temperature (in dark)	Manufacturer's  Date
Bottles of Dehydrated Media (unopened)	Room Temperature	Manufacturer's Date or 2 years
Bottles of Dehydrated Media (opened)	Room Temperature (stored upside down)	Manufacturer's Date or 6 months
Bottles of Dehydrated Media (in dessicator/opened)	Room Temperature (stored upside down)	Manufacturer's Date or 1 year
Tube Media (prepared in-house); screw-cap	Refrigerator	3 months
Tube Media (commercially prepared)	Refrigerator	Manufacturer's Date
pH Buffers (opened)	Room Temperature	Manufacturer's Date
Chemical Reagents	Room Temperature	6 Years

<sup>\*</sup>SM 9020B, 20<sup>th</sup> Ed., 1998.